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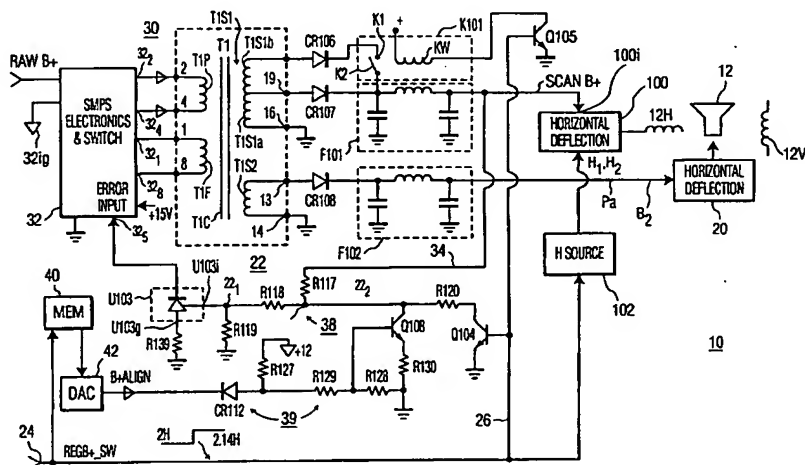
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[Continued on next page]

(54) Title: DEFLECTION SUPPLY VOLTAGE FEEDBACK CONTROL IN CONJUNCTION WITH FREQUENCY CHANGE



(57) Abstract: A video display (10) includes a scanner (100) operable at a first frequency (H1) and a higher second frequency (H2). A switchmode power supply (SMPS) (32) drives a transformer (T1) with three secondaries (T1S1b, T1S1a and T1S2). First and second rectifiers & filters ((CR107, CR108) and (F101, F102)) are associated with the first and second secondaries. A rectifier is coupled to the third secondary (T1S1b) and by way of a switch (K2) to the first filter (F101). Feedback from the first filter (F101) controls the SMPS (32). In a first operating mode, the scanner (100) is operated at the first frequency, the switch is open, the scanner supply (SCAN +) is a first voltage from the first filter (F101), and ancillary equipment is supplied with a third voltage by the second filter (F102). In a second operating mode, the scanner (100) is operated at the second frequency, the switch (K2) is closed, the scanner supply (SCANB +) is a second voltage, higher than the first, from the first filter (F101), and ancillary equipment is supplied with the same third voltage.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/11564

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H02M 3/335; G09G 1/04; H01J 29/70
US CL : 315/411, 395, 408, 369; 363/21, 19, 21, 23

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 315/411, 395, 408, 369; 363/21, 19, 21, 23

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,658,342 A (WHARTON) 14 April 1987 (14.04.1987), see entire document.	1-20
Y	US 4,692,852 A (HOOVER) 08 September 1987 (08.09.1987), see entire document.	1-20
Y	US 6,114,817 A (FERNISLER) 05 September 2000 (05.09.2000), see entire document.	1-20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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